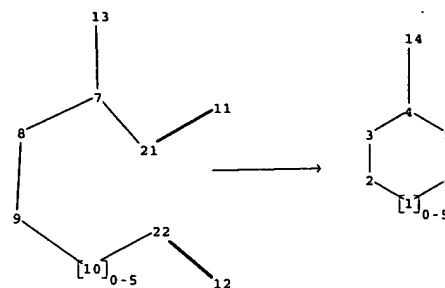
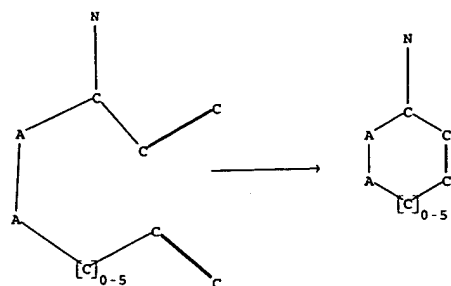


01/17/02



chain nodes :

7 8 9 10 11 12 21 22

ring nodes :

1 2 3 4 5 6

ring/chain nodes :

13 14

chain bonds :

4-14 7-8 7-13 7-21 8-9 9-10 10-22 11-21 12-22

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 4-14 5-6 7-8 7-13 8-9 9-10

exact bonds :

7-21 10-22 11-21 12-22

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS 14:CLASS 21:CLASS 22:CLASS

fragments assigned product role:

containing 1

fragments assigned reactant/reagent role:

containing 7

node mappings:

4:7 5:21 6:22

09/514,023

FILE 'CAPLUS' ENTERED AT 12:10:33 ON 17 JAN 2002

=> s (RCM OR metathesis) AND ("ionic liquid" OR "ionic liquids")

715 RCM

9282 METATHESIS

214009 "IONIC"

589654 "LIQUID"

240 "IONIC LIQUID"

("IONIC"(W)"LIQUID")

214009 "IONIC"

105472 "LIQUIDS"

591 "IONIC LIQUIDS"

("IONIC"(W)"LIQUIDS")

L7 15 (RCM OR METATHESIS) AND ("IONIC LIQUID" OR "IONIC LIQUIDS")

=> d 1-15

L7 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 2001:749749 CAPLUS
DN 136:37465
TI Ruthenium-catalyzed olefin **metathesis** in ionic
liquids
AU Buijsman, Rogier C.; van Vuuren, Elizabeth; Sterrenburg, Jan Gerard
CS Lead Discovery Unit, N.V. Organon, Oss, 5340 BH, Neth.
SO Organic Letters (2001), 3(23), 3785-3787
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
RE.CNT 44
RE
(2) Ahmed, M; Tetrahedron Lett 1999, V40, P8657 CAPLUS
(3) Ahn, Y; Org Lett 2001, V3, P1411 CAPLUS
(4) Armstrong, S; J Chem Soc, Perkin Trans 1 1998, P371 CAPLUS
(5) Brown, R; J Am Chem Soc 2001, V123, P1254 CAPLUS
(8) Chauvin, Y; Angew Chem, Int Ed Engl 1995, V34, P2698 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 2001:694124 CAPLUS
TI 1-Butyl-3-methylimidazolium cobalt tetracarbonyl [bmim][Co(CO)₄]: a
catalytically active organometallic **ionic liquid**
AU Brown, Richard J. C.; Dyson, Paul J.; Ellis, David J.; Welton, Thomas
CS Department of Chemistry, Imperial College of Science, Technology and
Medicine, South Kensington, London, SW7 2AY, UK
SO Chem. Commun. (Cambridge, U. K.) (2001), (18), 1862-1863
CODEN: CHCOFS; ISSN: 1359-7345
PB Royal Society of Chemistry
DT Journal
LA English
RE.CNT 27
RE
(2) Adams, C; Chem Commun 1999, P1043 CAPLUS
(3) Adams, C; Green Chem 2000, P21 CAPLUS
(5) Alper, H; Tetrahedron Lett 1977, P2861 CAPLUS
(6) Bach, C; Angew Chem, Int Ed Engl 1996, V35, P1974 CAPLUS
(7) Brasse, C; Organometallics 2000, V19, P3818 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 2001:686289 CAPLUS
DN 136:5510
TI Synthesis and application of ionic liquid
AU Li, Ruxiong; Wang, Jianji
CS Dep. Chem., Beijing Inst. Petrochemical Technology, Beijing, 102600,
Peop.
Rep. China
SO Huaxue Shiji (2001), 23(4), 211-215
CODEN: HUSHDR; ISSN: 0258-3283
PB Huagongbu Huaxue Shiji Xinsizhan
DT Journal; General Review
LA Chinese

L7 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:416865 CAPLUS
 DN 135:33478
 TI Process for preparing ambient temperature ionic liquids
 IN Seddon, Kenneth Richard; Carmichael, Adrian John; Earle, Martyn John
 PA Queen's University of Belfast, UK
 SO PCT Int. Appl., 18 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001040146	A1	20010607	WO 2000-GB4584	20001201
	W:				
	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				
	CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,				
	IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,				
	MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,				
	SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI GB 1999-28290 A 19991201

OS CASREACT 135:33478

RE.CNT 3

RE

(1) Beilstein Information Service; FILE: XFIRE

(2) Bp Chem Int Ltd; WO 9521871 A 1995 CAPLUS

(3) Howarth; TETRAHEDRON LETT 1997, V38(17), P3097 CAPLUS

L7 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 2000:876019 CAPLUS
DN 134:193157
TI Electrophilic nitration of aromatics in ionic liquid
solvents
AU Laali, Kenneth K.; Gettwert, Volker J.
CS Department of Chemistry, Kent State University, Kent, OH, 44242, USA
SO J. Org. Chem. (2001), 66(1), 35-40
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
RE.CNT 23
RE
(1) Adams, C; Chem Commun 1999, P1043 CAPLUS
(3) Boon, J; Proceedings of the Joint International Symposium on Molten Salts;
6th 1987, P979 CAPLUS
(4) Carmichael, A; Org Lett 1999, V1, P997 CAPLUS
(5) Carmichael, H; Chem Britain 2000, V36, P36 CAPLUS
(6) Coon, C; J Org Chem 1973, V38, P4243 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 2000:712179 CAPLUS
DN 134:116251
TI **Ionic liquids** as new-generation reactive solvents
AU Nowicki, Janusz
CS Inst. Ciekkiej Syntezy Org., Kedzierzyn-Kozle, Pol.
SO Chemik (2000), 53(8), 223-226
CODEN: CHGLAY; ISSN: 0009-2886
PB Zaklad Wydawniczy CHEMPRESS
DT Journal; General Review
LA Polish

L7 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2002 ACS
 AN 2000:645656 CAPLUS
 DN 133:237853
 TI Olefin **metathesis** in the presence of **ionic liquids** and transition metal carbene catalysts.
 IN Gurtler, Chistoph; Jautelat, Manfred
 PA Bayer A.-G., Germany
 SO Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 1035093	A2	20000913	EP 2000-103339	20000221
	EP 1035093	A3	20010124		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19909600	A1	20000907	DE 1999-19909600	19990305
	DE 19927912	A1	20001221	DE 1999-19927912	19990618
PRAI	DE 1999-19909600	A	19990305		
	DE 1999-19927912	A	19990618		
OS	CASREACT 133:237853; MARPAT 133:237853				

L7 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 2000:559914 CAPLUS
DN 133:281895
TI Ionic Phosphine Ligands with Cobaltocenium Backbone: Novel Ligands for
the. Highly Selective, Biphasic, Rhodium-Catalyzed Hydroformylation of
1-Octene
in **Ionic Liquids**
AU Brasse, Claudia C.; Englert, Ulli; Salzer, Albrecht; Waffenschmidt,
Horst;
Wasserscheid, Peter
CS Institut fuer Anorganische Chemie, RWTH Aachen, Aachen, D 52056, Germany
SO Organometallics (2000), 19(19), 3818-3823
CODEN: ORGND7; ISSN: 0276-7333
PB American Chemical Society
DT Journal
LA English
OS CASREACT 133:281895
RE.CNT 29
RE
(1) Bader, R; Chimia 1996, V50, P99 CAPLUS
(2) Bosch, B; Inorg Chim Acta 1998, V270, P446 CAPLUS
(3) Casey, C; J Am Chem Soc 1992, V114, P5535 CAPLUS
(4) Casey, C; J Am Chem Soc 1997, V119, P11817 CAPLUS
(5) Chauvin, Y; EP 0776880 A1 1996 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1999:418575 CAPLUS
DN 131:250692
TI The phase behaviour of 1-alkyl-3-methylimidazolium tetrafluoroborates;
ionic liquids and **ionic liquid**
crystals
AU Holbrey, John D.; Seddon, Kenneth R.
CS The QUESTOR Centre, The Queen's University of Belfast, Belfast, BT9 5AG,
UK
SO J. Chem. Soc., Dalton Trans. (1999), (13), 2133-2140
CODEN: JCDTBI; ISSN: 0300-9246
PB Royal Society of Chemistry
DT Journal
LA English
RE.CNT 37
RE
(2) Bonhote, P; Inorg Chem 1996, V35, P1168 CAPLUS
(3) Bonhote, P; Inorg Chem 1996, V35, P1168 CAPLUS
(4) Bowlas, C; Chem Commun 1996, P1625 CAPLUS
(5) Busico, V; J Phys Chem 1983, V87, P1631 CAPLUS
(7) Chauvin, Y; Angew Chem, Int Ed Engl 1995, V34, P2698 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1999:35834 CAPLUS
DN 130:183391
TI **Ionic liquid**-polymer gel electrolytes from hydrophilic
and hydrophobic **ionic liquids**
AU Fuller, Joan; Breda, Amy C.; Carlin, Richard T.
CS SAF/AQRT, 1060 Air Force Pentagon, Washington, DC, 20330-1060, USA
SO J. Electroanal. Chem. (1998), 459(1), 29-34
CODEN: JECHES; ISSN: 0368-1874
PB Elsevier Science S.A.
DT Journal
LA English
RE.CNT 22
RE
(4) Carlin, R; US 5552238 1996 CAPLUS
(8) Carlin, R; Molten Salt X 1996, V96-7, P362 CAPLUS
(9) Chauvin, Y; Angew Chem Int Ed 1995, V34, P2698 CAPLUS
(10) Chauvin, Y; CHEMTECH 1995, V25(9), P26 CAPLUS
(12) Fuller, J; J Electrochem Soc 1997, V144, P3881 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1998:757839 CAPLUS
DN 130:95508
TI Novel organic **ionic liquids** (OILs) incorporating
cations derived from the antifungal drug miconazole
AU Davis, James H., Jr.; Forrester, Kerri J.; Merrigan, Travis
CS Department of Chemistry, University of South Alabama, Mobile, AL,
36608-0002, USA
SO Tetrahedron Lett. (1998), 39(49), 8955-8958
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 9
RE
(1) Bonhote, P; Inorg Chem 1996, V35, P1168 CAPLUS
(3) Chauvin, Y; CHEMTECH 1995, V25, P26 CAPLUS
(4) Chauvin, Y; Ind Eng Chem Res 1995, V34, P2698 CAPLUS
(6) Elaiwi, A; J Chem Soc Dalton Trans 1995, P3467 CAPLUS
(8) Hussey, C; Pure Appl Chem 1988, V60, P1763 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1997:63222 CAPLUS
DN 126:95293
TI Two-phase catalysis in nonaqueous **ionic liquids**
AU Chauvin, Yves
CS Fr.
SO Actual. Chim. (1996), (7), 44-46
CODEN: ACCHDG; ISSN: 0151-9093
PB Dunod
DT Journal; General Review
LA French

L7 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1996:683340 CAPLUS
DN 126:46733
TI Nonaqueous room-temperature **ionic liquids**: a new class
of solvents for catalytic organic reactions
AU Olivier, Helene; Chauvin, Yves
CS Institut Francais du Petrole, Rueil-Malmaison, 92506, Fr.
SO Chem. Ind. (Dekker) (1996), 68(Catalysis of Organic Reactions), 249-263
CODEN: CHEIDI; ISSN: 0737-8025
PB Dekker
DT Journal
LA English

L7 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1995:805520 CAPLUS
DN 124:7940
TI Nonaqueous **ionic liquids** as reaction solvents
AU Chauvin, Yves; Olivier-Bourbigou, Helene
CS Institut Francais du Petrole, Rueil-Malmaison, 92506, Fr.
SO CHEMTECH (1995), 25(9), 26-30
CODEN: CHTEDD; ISSN: 0009-2703
DT Journal; General Review
LA English

L7 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2002 ACS
AN 1992:531126 CAPLUS
DN 117:131126
TI Air and water stable 1-ethyl-3-methylimidazolium based **ionic liquids**
AU Wilkes, John S.; Zaworotko, Michael J.
CS Frank J. Seiler Res. Lab., United States Air Force Acad., CO, 80840, USA
SO J. Chem. Soc., Chem. Commun. (1992), (13), 965-7
CODEN: JCCCAT; ISSN: 0022-4936
DT Journal
LA English

=>
=> d 1-15 kwic

L7 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI Ruthenium-catalyzed olefin **metathesis** in ionic liquids

AB Ionic liq. 1-butyl-3-methylimidazolium hexafluorophosphate ([bmim]PF6) is described as an effective medium for ring-closing **metathesis** (**RCM**) using Grubbs catalysts. When [bmim]PF6 was used as solvent, the **RCM** showed high conversions and a broad substrate tolerance. Thus, (H₂C:CHCH₂)₂NSO₂C₆H₄Me-4 gave 1-tosyl-2,5-dihydro-1-H-pyrrole. The ionic liq. [bmim]PF6 and the ruthenium catalyst. . .

ST ring closing **metathesis** olefin ruthenium ionic liq; ionic liq olefin ring closing **metathesis** ruthenium

IT **Metathesis**
 (ring-closing; ruthenium-catalyzed ring-closing **metathesis** of dienes in ionic liqs.)

IT Green chemistry
 Ionic liquids
Metathesis catalysts
 (ruthenium-catalyzed ring-closing **metathesis** of dienes in ionic liqs.)

IT 172222-30-9, Grubbs' catalyst 331282-59-8, Grubbs' imidazole catalyst
 RL: CAT (Catalyst use); USES (Uses)
 (ruthenium-catalyzed ring-closing **metathesis** of dienes in ionic liqs.)

IT 174501-64-5 174501-65-6 244193-52-0 304680-36-2 379712-23-9
 RL: MSC (Miscellaneous)
 (ruthenium-catalyzed ring-closing **metathesis** of dienes in ionic liqs.)

IT 3195-24-2 50487-72-4 164298-40-2 241821-32-9 241821-33-0
 379712-21-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ruthenium-catalyzed ring-closing **metathesis** of dienes in ionic liqs.)

IT 16851-72-2 21622-00-4 164298-43-5 241821-44-3 241821-45-4
 379712-22-8
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (ruthenium-catalyzed ring-closing **metathesis** of dienes in ionic liqs.)

L7 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI 1-Butyl-3-methylimidazolium cobalt tetracarbonyl [bmim][Co(CO)₄]: a catalytically active organometallic **ionic liquid**

AB An ambient temp. liq. transition metal carbonyl anion has been prepd. in a

metathesis reaction between [bmim]Cl ([bmim]⁺ = 1-butyl-3-methylimidazolium cation) and Na[Co(CO)₄]; the ionic liq. catalyzes the debromination of 2-bromoketones.

L7 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI Synthesis and application of **ionic liquid**

AB . . . liqs. Over one hundred ionic liqs. have been prepd. The methods

of their synthesis can be classified into two categories:

metathesis and acid-base neutralization. They can be applied to sepn. technol., electrochem. and chem. synthesis, particularly catalytic reaction.

IT Catalysts

Ionic liquids

Organic synthesis

(synthesis and application of ionic liq.)

L7 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI Process for preparing ambient temperature **ionic liquids**

AB . . . substituted imidazoles, pyridines and substituted pyridines.

The

so-formed products can be subsequently transformed into different ionic liqs. or salts by **metathesis**. E.g., 1-ethyl-3-methylimidazolium trifluoroethanoate, prepd. by reaction of 1-methylimidazole and Et trifluoroethanoate in ethanenitrile, was treated with hexafluorophosphoric acid to give. . .

L7 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI Electrophilic nitration of aromatics in **ionic liquid** solvents

AB . . . ionic liqs. was extended. Counterion dependency of the NMR spectra of the [emim][X] liqs. was used to gauge counterion exchange (**metathesis**) during nitration. Ionic liq. nitration is a useful alternative to classical nitration routes due to easier product isolation and recovery. . .

L7 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI **Ionic liquids** as new-generation reactive solvents

IT Hydroformylation

Metathesis

(ionic liqs. as new-generation reactive solvents and their use in olefin)

L7 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI Olefin **metathesis** in the presence of **ionic liquids** and transition metal carbene catalysts.

AB Cyclic and/or polymeric materials were prepd. by **metathesis** of starting materials contg. .gtoreq.2 functional groups in the form of (substituted) alkenes or alkynes in the presence of ionic. . .

ST olefin **metathesis** ionic liq transition metal carbene catalyst; cyclohexene prepn; pyrrole dihydro prepn

IT **Metathesis**
Metathesis catalysts
(olefin **metathesis** in the presence of ionic liqs. and transition metal carbene catalysts)

IT Amines, miscellaneous
Metal alkoxides
Perfluoro compounds
RL: MSC (Miscellaneous)
(olefin **metathesis** in the presence of ionic liqs. and transition metal carbene catalysts)

IT Solvents
(org.; olefin **metathesis** in the presence of ionic liqs. and transition metal carbene catalysts)

IT 139220-25-0 172222-30-9 210570-04-0 211686-91-8 223905-02-0
RL: CAT (Catalyst use); USES (Uses)
(olefin **metathesis** in the presence of ionic liqs. and transition metal carbene catalysts)

IT 110-83-8P, Cyclohexene, preparation 63603-33-8P 86766-64-5P
174574-30-2P 220399-95-1P 292609-14-4P, Azacyclotridec-11-en-2-one
292609-15-5P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(olefin **metathesis** in the presence of ionic liqs. and transition metal carbene catalysts)

IT 7723-14-0D, Phosphorus, compds. 79917-90-1, 1-Methyl-3-butylimidazolium chloride
RL: MSC (Miscellaneous)
(olefin **metathesis** in the presence of ionic liqs. and transition metal carbene catalysts)

IT 124-02-7, Diallylamine 498-66-8, Bicyclo[2.2.1]hept-2-ene 762-72-1
3710-30-3, 1,7-Octadiene 71663-71-3, 3-Amino-1,7-octadiene 78805-03-5
90925-51-2 127022-49-5 176839-63-7
RL: RCT (Reactant)
(olefin **metathesis** in the presence of ionic liqs. and transition metal carbene catalysts)

IT 505-07-7, Pyridinium tetrafluoroborate 543-54-4, Pyridinium hydrogen sulfate 1124-64-7, N-Butylpyridinium chloride 4124-42-9, Ammonium tosylate 7446-70-0, Aluminum chloride (AlCl3), miscellaneous 7803-63-6, Ammonium hydrogen sulfate 13826-83-0, Ammonium tetrafluoroborate 16941-11-0, Ammonium hexafluorophosphate 16941-15-4,
Pyridinium hexafluorophosphate 65039-09-0, 1-Methyl-3-ethylimidazolium chloride 174501-64-5
RL: MSC (Miscellaneous)
(solvent; olefin **metathesis** in the presence of ionic liqs. and transition metal carbene catalysts)

L7 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Ionic Phosphine Ligands with Cobaltocenium Backbone: Novel Ligands for
the Highly Selective, Biphasic, Rhodium-Catalyzed Hydroformylation of
1-Octene
in **Ionic Liquids**
IT 14024-48-7, Bis(acetylacetonato)cobalt
RL: RCT (Reactant)
(coordinative **metathesis** with lithium
phosphinocyclopentadienide)
IT 1079-66-9, Diphenylphosphinous chloride
RL: RCT (Reactant)
(**metathesis** with alkali metal and thallous
cyclopentadienides)
IT 4984-82-1, Sodium cyclopentadienide 16733-97-4, Lithium
cyclopentadienide 34822-90-7, Cyclopentadienylthallium
RL: RCT (Reactant)
(**metathesis** with phosphinous chloride)
IT 83272-80-4P, ((Diphenylphosphino)cyclopentadienyl)lithium
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and coordinative **metathesis** with cobalt
acetylacetonato complex and cobaltous chloride)

L7 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI The phase behaviour of 1-alkyl-3-methylimidazolium tetrafluoroborates;
ionic liquids and **ionic liquid**
crystals

AB Air- and H₂O-stable 1-alkyl-3-methylimidazolium tetrafluoroborate salts
[C_n-mim] [BF₄] (n = 0-18) were prepd. by **metathesis** from the
corresponding chloride or bromide salts. The salts were characterized by
1H NMR and IR spectroscopy, microanal., polarizing optical. . .

L7 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI **Ionic liquid**-polymer gel electrolytes from hydrophilic
and hydrophobic **ionic liquids**
AB . . . of 3.77 and 7.86 V, resp. New inexpensive preparative routes
for
the hydrophilic ionic liqs. were developed that utilize the
metathesis reaction of EMICI with the appropriate ammonium salt in
acetone or acetonitrile to produce high purity products.

L7 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI Novel organic **ionic liquids** (OILs) incorporating
cations derived from the antifungal drug miconazole

AB The imidazole-ring contg. antifungal drug miconazole reacts with a
variety

of alkyl iodides to form imidazolium cations. After anion
metathesis with NaPF_6 , org. ionic liqs. (OILs) are obtained.
These new ionic liqs. are believed to be the first to be. . .

L7 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Two-phase catalysis in nonaqueous **ionic liquids**
AB . . . quaternary ammonium cations (e.g. N,N'-dialkylimidazolium) and
anions of controlled coordination ability, are effective solvents for
organometallic-catalyzed hydrogenation, hydroformylation, dimerization
and
metathesis reactions.
IT Catalysis
Dimerization catalysts
Hydroformylation catalysts
Hydrogenation catalysts
Metathesis catalysts
(two-phase catalysis in nonaq. ionic liqs.)

L7 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2002 ACS

TI Nonaqueous room-temperature **ionic liquids**: a new class of solvents for catalytic organic reactions

AB . . . simple decantation. We have deliberately used these media for catalytic reactions of industrial petroleum interest such as dimerization,

alkylation, hydrogenation, **metathesis**, hydroformylation of olefins and cyclodimerization of butadiene. This extends the field of two-phase catalysis to substrates, complexes and ligands which. . .

IT **Metathesis** catalysts

(catalytic olefin **metathesis** in ionic liq. solvents)

IT 109-68-2, 2-Pentene

RL: RCT (Reactant)

(catalytic olefin **metathesis** in ionic liq. solvents)

L7 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2002 ACS
TI Nonaqueous **ionic liquids** as reaction solvents
AB Mixts. of quaternary ammonium salts and organoaluminum compds. are very effective solvents for metal catalyzed olefin dimerization and **metathesis**. Ionic liqs. show promise as solvents for two-phase catalysis;26 refs.
IT Double decomposition catalysts
(two-phase; metal catalyzed olefin **metathesis** in ionic liqs. as solvents)

L7 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2002 ACS
 TI Air and water stable 1-ethyl-3-methylimidazolium based **ionic liquids**
 IT 563-63-3, Silver acetate 7761-88-8, Silver nitrate, reactions
 7783-99-5, Silver nitrite 10294-26-5, Silver sulfate 14104-20-2,
 Silver tetrafluoroborate
 RL: RCT (Reactant)
 (metathesis by, of ethylmethylimidazolium iodide)
 IT 35935-34-3
 RL: RCT (Reactant)
 (metathesis of, by silver salts)

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 PASSWORD:
 TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 2 Sep 17	IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH
NEWS 3 Oct 09	Korean abstracts now included in Derwent World Patents Index
NEWS 4 Oct 09	Number of Derwent World Patents Index updates increased
NEWS 5 Oct 15	Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS 6 Oct 22	Over 1 million reactions added to CASREACT
NEWS 7 Oct 22	DGENE GETSIM has been improved
NEWS 8 Oct 29	AAASD no longer available
NEWS 9 Nov 19	New Search Capabilities USPATFULL and USPAT2
NEWS 10 Nov 19	TOXCENTER(SM) - new toxicology file now available on STN
NEWS 11 Nov 29	COPPERLIT now available on STN
NEWS 12 Nov 29	DWPI revisions to NTIS and US Provisional Numbers
NEWS 13 Nov 30	Files VETU and VETB to have open access
NEWS 14 Dec 10	WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS 15 Dec 10	DGENE BLAST Homology Search
NEWS 16 Dec 17	WELDASEARCH now available on STN
NEWS 17 Dec 17	STANDARDS now available on STN
NEWS 18 Dec 17	New fields for DPCI
NEWS 19 Dec 19	CAS Roles modified
NEWS 20 Dec 19	1907-1946 data and page images added to CA and CAplus
NEWS EXPRESS	August 15 CURRENT WINDOWS VERSION IS V6.0c, CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP), AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:46:50 ON 17 JAN 2002

=> file acsreact
'ACSREACT' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'HOME'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'CASREACT' ENTERED AT 13:47:13 ON 17 JAN 2002
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for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1974 - 13 Jan 2002 VOL 136 ISS 2

Some records from 1974 to 1991 are derived from the ZIC/VINITI data file
and provided by InfoChem.

This file contains CAS Registry Numbers for easy and accurate substance
identification.

Crossover limits have been increased. See HELP RNCROSSOVER for details.

=>
Uploading 09514027.str

L1 STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 13:47:46 FILE 'CASREACT'
SCREENING COMPLETE - 204 REACTIONS TO VERIFY FROM 44 DOCUMENTS

100.0% DONE 204 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 3224 TO 4936
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1 (0 REACTIONS)

=> s l1 sss full
FULL SEARCH INITIATED 13:47:57 FILE 'CASREACT'
SCREENING COMPLETE - 6846 REACTIONS TO VERIFY FROM 1131 DOCUMENTS

100.0% DONE 6846 VERIFIED 0 HIT RXNS 0 DOCS
SEARCH TIME: 00.00.03

L3 0 SEA SSS FUL L1 (0 REACTIONS)

=>

Uploading 09514027.str

L4 STRUCTURE UPLOADED

=> s l4 full

FULL SEARCH INITIATED 13:52:01 FILE 'CASREACT'

SCREENING COMPLETE - 6829 REACTIONS TO VERIFY FROM 1126 DOCUMENTS

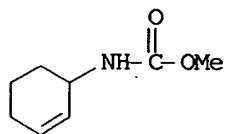
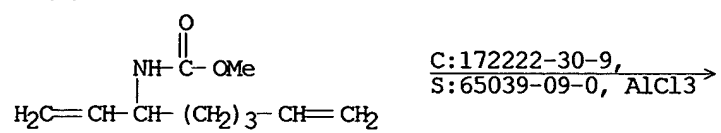
100.0% DONE 6829 VERIFIED 5 HIT RXNS 4 DOCS

SEARCH TIME: 00.00.02

L5 4 SEA SSS FUL L4 (5 REACTIONS)

=> d 1-4

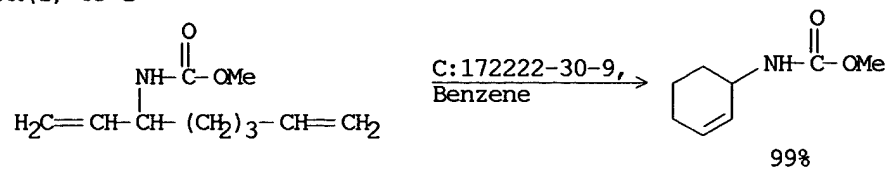
RX(2) OF 5



99%

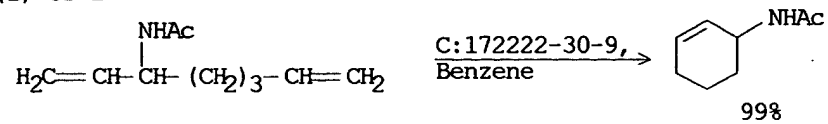
REF: Eur. Pat. Appl., 1035093, 13 Sep 2000

RX(1) OF 1



REF: Ger. Offen., 19909600, 07 Sep 2000

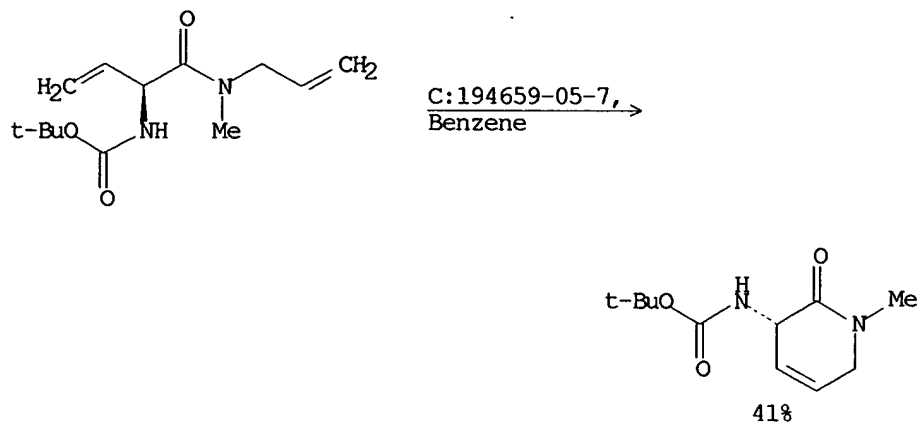
RX(1) OF 2



REF: Ger. Offen., 19840108, 09 Mar 2000

NOTE: 14 h, 80.degree.

RX(1) OF 1



REF: Tetrahedron Lett., 39(34), 6175-6178; 1998

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:.

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

197.28

TOTAL

SESSION

197.43

STN INTERNATIONAL LOGOFF AT 13:53:14 ON 17 JAN 2002